Revised June 6, 2000

Hazardous Waste Management Act/ Resource Conservation and Recovery Act Work Plan for the Idaho National Engineering and Environmental Laboratory

EPA No. ID4890008952

CONTENTS

TABLES

ACRONYMS

AMWTF	Advanced Mixed Waste Treatment Facility
ANL-W	Argonne National Laboratory - West
ARA	Auxiliary Reactor Area
ARARs	applicable or relevant and appropriate requirements
ARVFS	Army Reentry Vehicle Facility Site
ASB-II	Air Support Building-II
BBWI	Bechtel BWXT Idaho, LLC.
BNFL	British Nuclear Fuels, Limited
C&S	Certified and Segregated
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFA	Central Facilities Area
CFR	Code of Federal Regulations
COCA	Consent Order and Compliance Agreement
CPP	Chemical Processing Plant
CSSF	Calcined Solids Storage Facility
DOE	Department of Energy
DOE-ID	Department of Energy, Idaho Operations Office
DEQ	Division of Environmental Quality
EBR-II	Experimental Breeder Reactor-II
EIS	Environmental Impact Statement
EPA	Environmental Protection Agency
FA	Facility Assessment
FAST	Fluorinel Dissolution Process and Fuel Storage
FFA/CO	Federal Facilities Agreement and Consent Order

HCRWSF	Hazardous Chemical and Radioactive Waste Storage Facility
HCWHNF	Hazardous Chemical Waste Handling and Neutralization Facility
HEPA	high-efficiency particulate air
HFEF	Hot Fuel Examination Facility
HFLS	HEPA Filter Leach System
HLW	high-level waste
HTRE	Heat Transfer Reactor Experiment
HWMA	Hazardous Waste Management Act
HWNs	hazardous waste numbers
HWSA	Hazardous Waste Storage Area
ICPP	Idaho Chemical Processing Plant
IDHW	Idaho Department of Health and Welfare
IET	Initial Engine Test
ILTSF	Intermediate-Level Transuranic Storage Facility
INEEL	Idaho National Engineering and Environmental Laboratory
INTEC	Idaho Nuclear Technology and Engineering Center
LDU	land disposal unit
LET&D	Liquid Effluent Treatment and Disposal
M&O	management and operations
MACT	Maximum Achievable Control Technology
MCC	Multicurie Cell
MLLWDF	Mixed Low-Level Waste Disposal Facility
MLLWTF	Mixed Low-Level Waste Treatment Facility
MW	mixed waste
MWSF	Mixed Waste Storage Facility

NOD	Notice of Deficiency
NODA	Naval Ordinance Disposal Area
NON/CO	Notice of Noncompliance/Consent Order
NOV/CO	Notice of Violation/Consent Order
NWCF	New Waste Calcining Facility
PBF	Power Burst Facility
PER	Power Excursion Reactor
PEW	process equipment waste
PEWE	process equipment waste evaporator
PMR	permit modification request
POC	point of contact
PREPP	Process Experimental Pilot Plant
PSD	permitting strategy document
PSS	Primary Sodium System
PSUs	Portable Storage Units
PWTU	Portable Water Treatment Unit
RCRA	Resource Conservation and Recovery Act
RMF	Retrieval Modification Facility
RMWSF	Radioactive Mixed Waste Staging Facility
ROD	Record of Decision
RPSUs	Repackage Portable Storage Units
RSSF	Radioactive Sodium Storage Facility
RSTA	Reactives Storage and Treatment Area
RSWF	Radioactive Scrap and Waste Facility
RTA	Request for Temporary Authorization

RTF	Remote Treatment Facility
RWMC	Radioactive Waste Management Complex
SCMS	Sodium Components Maintenance Shop
SLRA	Screening Level Risk Assessment
SMC	Specific Manufacturing Capability
SPERT	Special Power Excursion Reactor Test (Facilities I-IV)
SPF	Sodium Process Facility
SSB	Sodium Storage Building
SSS	Secondary Sodium System
STP	Site Treatment Plan
SWEPP	Stored Waste Examination Pilot Plant
SSA	SWEPP Storage Area
TAN	Test Area North
TBD	to be determined
TBR	Trial Burn Report
THWS	TAN Hazardous Waste Storage
TRA	Test Reactor Area
TSA	Transuranic Storage Area
TSA-R	Transuranic Storage Area - Pad R
TSA-RE	Transuranic Storage Area - Retrieval Enclosure
TSA-RE RMF	TSA-RE Retrieval Modification Facility
TSCA	Toxic Substances Control Act
VCO	Voluntary Consent Order
WCF	Waste Calcining Facility (located at INTEC)
WCF	Waste Characterization Facility (located at RWMC)

WEDF	Waste Engineering Development Facility
WERF	Waste Experimental Reduction Facility
WG/WH	designator for PEW system located in CPP-601
WIPP	Waste Isolation Pilot Plant
WMU	Waste Management Unit
WROC	Waste Reduction Operation Complex
WRRTF	Water Reactor Research Test Facility
WSF	Waste Storage Facility
WSS	WERF Stabilization System
WWSB	WERF Waste Storage Building

1. INTRODUCTION

This Work Plan documents the proposed schedules for Hazardous Waste Management Act/Resource Conservation and Recovery Act (HWMA/RCRA) permitting and closure activities at the Idaho National Engineering and Environmental Laboratory (INEEL). This document incorporates Site Treatment Plan (STP) milestones, amended Notice of Noncompliance/Consent Order (NON/CO) deadlines, and proposed permit application, closure plan, and permit modification submittal dates.

Table 1 presents the proposed schedule for deadlines/milestones for HWMA/RCRA units located at the INEEL. These deadlines/milestones include milestones identified in the STP, as well as milestones identified for HWMA/RCRA permitting and closure activities. This table is currently being revised and has been temporarily removed from the document.

Table 2 presents the status of INEEL HWMA/RCRA units to be closed under interim status.

Table 3 presents all closed INEEL HWMA/RCRA units.

Table 4 presents the work plan for INEEL HWMA/RCRA units; this table also includes historical closure information.

Appendix A includes descriptions of INEEL HWMA/RCRA units and related historical information of units closed under HWMA/RCRA regulations.

Appendix B provides historical information for INEEL HWMA/RCRA units.

Appendix C provides the RCRA permitting point of contact (POC) matrix for the INEEL.

Table 1. Idaho Division of Environmental Quality/Idaho National Engineering Laboratory proposed permitting schedule.

Resource Conservation and Recovery Act Permitting & Closure Items/Milestones	Deliverable Date
THIS TABLE IS CURRENTLY BEING REVISED – THE SCHEDULE INFORMATION WILL BE SUPPLIED WHEN IT BECOMES AVAILABLE.	

Table 2. Idaho National Engineering and Environmental Laboratory waste management processes to be closed.

Process name	Location	Closure Plan Status
EBR-II Secondary Sodium (SSS) – Drain Tank System	Argonne National Laboratory-West (ANL-W)	Closure plan to be submitted to DEQ on August 1, 2000.
EBR-II Primary Sodium System (PSS) and the Intermediate Heat Exchanger (IHX)	ANL-W	Closure plan scheduled for submittal to DEQ - TBD.
EBR-II Secondary Sodium Purification System (Cold Trap)	ANL-W	Closure plan scheduled for submittal to DEQ by June 2000
CPP-601 D Cell Container Storage	Idaho Nuclear Technology and Engineering Center (INTEC)	TBD
CPP-603 Storage Tank (VES-SFE-106)	INTEC	TBD - Anticipated schedule for closure plan submittal is 2/01.
CPP-620 Hazardous Chemical Waste Handling and Neutralization Facility (HCWHNF)	INTEC	Closure plan submitted to DEQ on 9/30/99. DEQ approval of closure plan on 12/15/99. Certification of closure due to DEQ by 7/12/00.
CPP-640 Headend Holdup Storage Tanks	INTEC	TBD - Anticipated schedule for closure plan submittal is 2004.
CPP-659 New Waste Calcining Facility (NWCF) - NWCF Calciner	INTEC	Decision of whether to operate or to close this unit is to be determined by 1/31/01 (as part of the EIS). A closure plan is scheduled for submittal by 8/30/00.

Table 2. (continued)

Process name	Location	Closure Plan Status
ICPP Tank Farm Facility • Pillar & Panel Vaulted Tanks (WM-182 through WM-186) NOTE: WM-185 may be used as an emergency spare • Tank Farm Tanks: (WM-187 through WM-190) • SIR/STR Tanks: (WM-103 through WM-106)	INTEC	• Closure plan submittal for tanks WM-182 & WM-183 by 12/31/00 (VCO milestone); cease use of tanks WM-182 through WM-186 by June 2003, closure plan submittal TBD. • Must cease use of these Tank Farm tanks by 12/31/12, with future closure plan submittal TBD. • TBD
Intermediate-Level Transuranic Storage Facility (ILTSF) - Design V Vaults (Pad 2)	Radioactive Waste Management Complex (RWMC)	TBD - Anticipated 7/01 (dependent upon funding approval).
Transuranic Storage Area -Retrieval Enclosure (TSA-RE)	RWMC	Closure plan scheduled for submittal to DEQ by 1/10/03 (to be completed by BNFL).
Waste Characterization Facility (WCF)	RWMC	Administrative closure to be completed by BBWI. Completion date - TBD.
Loss-of-Fluid Test (LOFT) tanks/sumps	Test Area North (TAN)	NOV item - submit hazardous waste determination by 9/30/01. If hazardous waste, then 90 days to submit a schedule for closure plan submittal.
TAN-616 Evaporator and Tanks	TAN	NOV item - submit hazardous waste determination by 12/31/02. If hazardous waste, then 90 days to submit a schedule for closure plan submittal.
TAN-647 Waste Storage Building	TAN	TBD

Table 2. (continued)

Process name	Location	Closure Plan Status
Test Reactor Area (TRA)-630 Catch Tanks	Test Reactor Area (TRA)	VCO action plan date for closure plan submittal moved to 12/30/00 per February 2000 VCO update.
TRA-731 Acid/Caustic Tanks (B,C,D,E)	TRA	NOV item - Closure plan for Acid Caustic Tanks (B, C, D, E) to be submitted by 9/30/01.
TRA Sodium Loop (Fill, Storage, & Remelt Facility - FSR)	TRA	VCO action plan date for closure plan submittal moved to 9/30/00 per February 2000 VCO update.
WERF Drum Feed/Blending	Waste Reduction Operations Complex/ Power Burst Facility (WROC/PBF)	Closure plan is projected to be submitted to the DEQ by 5/31/01
WERF Incinerator	WROC/PBF	Closure plan is projected to be submitted to the DEQ by 5/31/01

Table 3. Closed Idaho National Engineering and Environmental Laboratory waste management processes.

Unit Process Name	Location	Division of Environmental Quality (DEQ) Approved Closure Date
Waste Experimental Reduction Facility (WERF) Waste Storage/Feed Tanks.	Waste Reduction Operations Complex (WROC)/Power Burst Facility (PBF)	5/16/00.
Process Experimental Pilot Plant (PREPP) Incinerator and Waste Stabilization Units	Test Area North (TAN)	3/7/00
Heat Transfer Reactor Experiment No. 3 (HTRE-3)	Experimental Breeder Reactor – I (EBR-1)	1/31/00
CPP-633 Waste Calcining Facility (WCF)	Idaho Nuclear Technology and Engineering Center (INTEC)	11/2/99*
CPP-627 Multicurie Cell (MCC)	INTEC	7/20/99
Portable Water Treatment Unit (PWTU)	WROC/Test Area North (TAN)	7/8/99
Certified and Segregated Building (C&S) and Air Support Building (ASB)-II	Radioactive Waste Management Complex (RWMC)	4/16/99
Waste Engineering Development Facility (WEDF) Storage and Waste Stabilization	WROC/PBF	12/2/97
Specific Manufacturing Capability (SMC) Calciner, Stabilization, and Storage	TAN	9/24/97
TAN-647 Sodium Storage	TAN	6/13/97
Naval Ordnance Disposal Area (NODA)	North of Central Facilities Area (CFA)	2/25/97
TAN-607A Evaporator	TAN	2/25/97
Hazardous Waste Storage Facility (HWSF)	CFA	2/4/97
TAN-681 Evaporator	TAN	12/20/96
Initial Engine Test (IET) Mercury Storage	North of TAN	12/20/96

Table 3. (continued)

Unit Process Name	Location	Division of Environmental Quality (DEQ) Approved Closure Date
Army Reentry Vehicle Facility Site (ARVFS) Storage (NaK)	South of TAN	9/12/96
CPP-666 Fluorinel Dissolution Process and Fuel Storage (FAST) - Storage and Treatment Tanks	INTEC	5/13/96
TAN-726/726A Chromate Treatment and Storage Tanks	TAN	12/26/95
ICPP Percolation Ponds	INTEC	11/29/95
Test Reactor Area (TRA)-610 Lead Storage	TRA	10/27/95
Intermediate-Level Transuranic Storage Facility (ILTSF)-Pad 1	RWMC	10/24/94
Reactives Storage and Treatment Area (RSTA)	Auxiliary Reactor Area (ARA)	10/24/94
TAN-666 Storage Tank and Treatment Units	TAN	10/20/94
ARVFS Chemical Treatment Unit	South of TAN	9/9/94
CPP-663 Hot Shop Storage Tank	INTEC	8/22/94

*In accordance with Section 5 of the approved closure plan, substantive post-closure care requirements for the WCF will be addressed under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as applicable or relevant and appropriate requirements (ARARs) under the final Record of Decision (ROD) and Post-ROD Monitoring Plan.

Table 4. Work plan for the Idaho National Engineering and Environmental Laboratory waste management units.

Volume Number	Waste Management Process*	Process Code(s)	Process Type(s)	Location	Waste Type(s)	Unit Status
Volume 1	Hazardous Waste Management Act (HWMA)/Resource Conservation and Recovery Act (RCRA) Part A Permit Application for the Idaho National Engineering and Environmental Laboratory (INEEL) - Bechtel BWXT Idaho, LLC					The January 2000 Revision of the Part A Permit Application for the INEEL, Volume 1, Books 1 & 2 was approved by the DEQ on 4/3/00.
Volume 2	RCRA Part A Permit Application for the INEEL - Argonne National Laboratory-West (ANL-W)					Last approved Part A Permit Modification Request was approved by the DEQ on 1/4/99.
Volume 3	General Information for INEEL Waste Management Units					Partial permits for the INEEL have been approved by the DEQ. Volume 3 is currently being revised and the completed revision will be transmitted to the DEQ.
Volume 4	ANL-W Storage Units Part B:			ANL-W		
	Radioactive Scrap and Waste Facility (RSWF)	S01	1	ANL-771	A/C	**NOTE:** Permitted 1/24/94
	Radioactive Sodium Storage Facility (RSSF)	S01	1	ANL-797	A/C/D	**NOTE:** Permitted 1/24/94
	Hot Fuel Examination Facility (HFEF)	S01	1	ANL-785	A/C	**NOTE:** Permitted 12/99
	Sodium Storage Building (SSB)	S01	1	ANL-703	A/D	**NOTE:** Permitted 12/99
Volume 5	Intermediate-Level Transuranic Storage Facility (ILTSF) - Pad 2	S01	1	RWMC	A/C	**NOTE:** Permitted 11/13/95
	Radioactive Waste Management Complex (RWMC) Waste Storage Facility	S01	1	RWMC	A/C	**NOTE:** Permitted 11/13/95
	Stored Waste Examination Pilot Plant (SWEPP) Transuranic Storage Area (TSA)-3	S01	1	RWMC	A/C	**NOTE:** Permitted 9/30/96
Volume 6 (This Volume is now considered inactive)	New Waste Calcining Facility (NWCF) Calciner	T04	4d	Idaho Nuclear Technology and Engineering Center (INTEC) - CPP-659	A/B/C	Interim Status **NOTE:** Operating per NOV/CO
	NWCF Storage & Treatment Tanks	S02, T01	2, 4c	INTEC - CPP-659	A/B/C	Interim Status
Volume 7	Hazardous Waste Storage Facility (HWSF)	S01	1	Central Facilities Area (CFA)-637	D	**NOTE:** Closed 2/4/97

Table 4. (continued)

Volume Number	Waste Management Process*	Process Code(s)	Process Type(s)	Location	Waste Type(s)	Unit Status
Volume 8	Hazardous Chemical Waste Handling and Neutralization Facility (HCWHNF)	S02, T01	2	INTEC - CPP-620 Annex	D	**NOTE:** Permitted 5/1/95. Currently undergoing closure activities.
Volume 9	Waste Experimental Reduction Facility (WERF) Incinerator	T03	3a	Waste Reduction Operations Complex (WROC) /Power Burst Facility (PBF) PER-609	A/D	Interim Status
	WERF Waste Stabilization	T04	4a	WROC/PBF - Special Power Excursion Reactor Test (SPERT)- III	A/D	Interim Status
	WERF/Mixed Waste Storage Facility (MWSF) Waste Repackaging (pretreatment)	T04	4l	WROC/PBF - SPERT III	A/D	Interim Status
Volume 10 (Or TBD Vol. # Volume 10 is now considered inactive)	Liquid Effluent Treatment & Disposal (LET&D)	T04	4d	INTEC - CPP-1618	A	Interim Status
	Evaporators	S02, T01	2	INTEC - CPP-1618	A	Interim Status to be requested
	LET&D Storage Tank	S02	2	INTEC - CPP-1618	A	Interim Status
	LET&D Nitric Acid Recycle Tank	S02	2	INTEC - CPP-1618	A	Interim Status
	PEW Condensate/Feed Storage Tanks	S02, T01	2, 4c	INTEC - CPP-604	A	Interim Status
	Fluorinel and Fuel Storage Facility Debris Storage*	S01	1	INTEC - CPP-666 FDP Cell	A	Interim Status
	NWCF Evaporator Tank System*	T04	4f	INTEC - CPP-659	A	Interim Status
	NWCF HEPA Filter Leaching System*	S02, T01	2, 4i	INTEC - CPP-659	A	Interim Status
	*__NOTE:__ These units have been incorporated into Volume 18 Part B Permit Application					
Volume 11	MWSF	S01	1	WROC/PBF - PER-613	A/D	**Permitted 1/27/00**
	MWSF Portable Storage Units (PSUs)	S01	1	WROC/PBF - SPERT IV	A/D	**Permitted 1/27/00**
	WERF Waste Storage Building (WWSB)	S01	1	WROC/PBF - PER-623	A/D	**Permitted 1/27/00**
	WERF Macroencapsulation and Sizing *	T04	4i,4b	WROC/PBF - PER-622	A/D	**Permitted 1/27/00**
	Test Area North (TAN) Hazardous Waste Storage **	S01	1	TAN-628	A/D	**Permitted 1/27/00**
	* **NOTE:** Incorporated from Vol. 19 Part B Permit Appl.					
	**__NOTE:__ Incorporated from Vol. 12 Part B Permit Appl.					
Volume 12	TAN Hazardous Waste Storage (THWS)	S01	1	TAN-628	A/D	**See Volume 11 information**
	NOTE: This information was incorporated into Vol. 11 Part B Permit Appl., per NOD from DEQ. This volume is no longer needed.					
Volume 13 (This Volume is now considered inactive)	Transuranic Storage Area-Retrieval Enclosure (TSA-RE) Retrieval Modification Facility	S01	1	RWMC	A/C	Interim Status
	Waste Characterization Facility (WCF) at RWMC	S01	1, 4a, 4c	RWMC	A/C	Interim Status
	NOTE: These units will not be permitted - this volume is no longer needed.					

Table 4. (continued)

Volume Number	Waste Management Process*	Process Code(s)	Process Type(s)	Location	Waste Type(s)	Unit Status
Volume 14 **NOTE:** Volume 14 permit application is currently being revised	Calcined Solids Storage Facility (CSSF) - New Volume number - TBD when necessary	S02	2	INTEC	A/B/C	Interim Status
	Process Equipment Waste (PEW) Evaporator	T04	4d	INTEC CPP-604	A	Interim Status
	PEW Feed Storage and Treatment Tanks - including the following newly designated PEW feed system tanks:	S02, T01 S02, T01	2, 4c 2, 4c	INTEC CPP-604, CPP-601	A	Interim Status
	• CPP-601 WG/WH Cells Storage and Treatment Tanks (VES-WG-100, -101, VES-WH-100, -101)	S02, T01	2, 4c	INTEC CPP-601	A	Interim Status
	• CPP-641 Westside Holdup Storage Tanks (VES-WL-103, -104, -105)	S02	2	INTEC CPP-641	A	Interim Status
	CPP-604 Tank Farm Tanks (VES-WM-100, -101, and -102)	S02	2	INTEC CPP-604	A	Interim Status
Volume 15	Army Reentry Vehicle Facility Site (ARVFS) Sodium-Potassium Waste Treatment at ANL-W	T04	4c	ANLW	A	ARVFS Treatment closed 9/9/94
	Sodium Components Maintenance Shop (SCMS) **NOTE:** SCMS incorporated into Volume 16, this volume is no longer needed.	S01, S02, T01, T04	1, 2, 4a, 4c, 4j	ANL-793		SCMS - see Volume 16
Volume 16	ANL-W Treatment Units Part B					
	Sodium Process Facility (SPF)	S01, S02, T01, T04	1, 2, 4c	ANL-799	A/D	**NOTE:** Permitted 1/24/97
	Sodium Components Maintenance Shop (SCMS)	S01, S02, T01, T04	1, 2, 4a, 4c, 4j	ANL-793	A/D	Interim Status
	Remote Treatment Facility (RTF)	S01, T04	1, 4	ANL-785	A/B/C	New Facility
Volume 17	Radioactive Mixed Waste Staging Facility (RMWSF)	S01	1	INTEC CPP-1617	A/D	Interim Status
	Hazardous Chemical and Radioactive Waste Storage Facility (HCRWSF)	S01	1	INTEC CPP-1619	A/D	Interim Status
	NOTE 1: CPP-601/627 Container Storage removed from Volume 17, per NOD from DEQ. **NOTE 2: The information found in this volume will be incorporated into the Volume 18 RCRA Partial Permit within 180 days of its issuance, per request of the DEQ.**	S01	1	INTEC CPP-601/627	B	Interim Status **NOTE 3:** CPP-627 (Multicurie Cell) closed 7/20/99
Volume 18	NWCF Debris Storage	S01, S03	1, 5	INTEC CPP-659	A/C	Interim Status
	NWCF High Efficiency Particulate Air (HEPA) Filter Leach System (HFLS)	T01	4c	INTEC CPP-659	A/C	Interim Status
	NWCF Debris Treatment	T04	1, 4c, 4i, 4j, 4k, 4l, 6	INTEC CPP-659	A	New Facility
	Fluorinel Dissolution Process and Fuel Storage (FAST) Debris Storage	S01	1	INTEC CPP-666	A/C	Interim Status
	NWCF Storage & Treatment Tanks (NCD-123, NCD-129)	S02, T01	2, 4c	INTEC CPP-659	A/C	Interim Status

Table 4. (continued)

Volume Number	Waste Management Process*	Process Code(s)	Process Type(s)	Location	Waste Type(s)	Unit Status
Volume 19	WERF Macroencapsulation WERF Sizing **NOTE:** This information was incorporated into Volume 11, this volume is no longer needed.	T04 T04	4i 4b	WROC/PBF - SPERT III WROC/PBF - SPERT III	A/D A/D	**See Volume 11 information**
Volume 20	Mercury Retort **NOTE:** This unit will not be constructed - this volume is no longer needed.	T04	4d	WROC/PBF	A/D	New Facility
TBD	Calcined Solids Storage Facility (CSSF)	S02	2	INTEC	B	Interim Status
No Volume Number (N/A)	HWMA/Toxic Substances Control Act (TSCA) Part B Permit Application for the Advanced Mixed Waste Treatment Facility (AMWTF) - British Nuclear Fuels, Limited			RWMC		New Facility
N/A	ARVFS NaK Storage Unit	S01	1	ARVFS	A, D	**NOTE:** Closed 9/12/96
N/A	CPP-601 D Cell Storage	S01	1	INTEC CPP-601	A	Interim Status **NOTE:** This unit is to be closed under interim status.
N/A	CPP-603 Storage Tank (VES-SFE-106)	S02	2	INTEC CPP-603	A	Interim Status **NOTE:** This unit to be closed under interim status.
N/A	CPP-627 Multicurie Cell (MCC)	S01	1	INTEC CPP-627	A	**NOTE:** Closed 7/20/99
N/A	CPP-633 Waste Calcining Facility (WCF) Evaporator	T04	4h	INTEC CPP-633	A/B	**NOTE:** Closed 11/2/99
N/A	CPP-633 WCF HEPA Filter Storage	S03	5	INTEC CPP-633	A/B	**NOTE:** Closed 11/2/99
N/A	CPP-633 WCF Storage Tanks	S02	2	INTEC CPP-633	A/B	**NOTE:** Closed 11/2/99

Table 4. (continued)

Volume Number	Waste Management Process*	Process Code(s)	Process Type(s)	Location	Waste Type(s)	Unit Status
N/A	CPP-640 Headend Holdup Storage Tanks	S02	2	INTEC CPP-640	A	Interim Status .
N/A	CPP-663 Hot Shop Storage Tank	S02	2	INTEC CPP-663	A	**NOTE:** Closed 8/22/94
N/A	CPP-666 FAST Storage and Treatment Tanks	S02, T01	2, 4c	INTEC CPP-666	D	**NOTE:** Closed 5/13/96
N/A	EBR-II Secondary Sodium System (SSS)	S01, S02	1, 2	ANL-766	A	Interim Status **NOTE:** This unit is to be closed under interim status.
N/A	EBR-II Primary Sodium System (PSS)	S02	2	ANL-W ANL-767	A	Interim Status **NOTE:** This unit is to be closed under interim status.
N/A	Evaporator at TAN-607A	S01, T04	1, 4f	TAN-607	A, D	**NOTE:** Closed 2/25/97
N/A	Evaporator at TAN-681	S01, T04	1, 4f	TAN-681	A, D	**NOTE:** Closed 12/20/96
N/A	Heat Transfer Reactor Experiment (HTRE)-3 Assembly	S01	1	EBR-1	A	**NOTE:** Closed 1/31/00
N/A	ICPP New Tank Farm	S02	2	INTEC	A/B	Interim Status **NOTE:** These tanks have interim status, but have not been built.
N/A	ICPP Percolation Ponds	T02	4h	INTEC	A/B	**NOTE:** Closed 11/29/95
N/A	ICPP Tank Farm Facility **NOTE:** The CPP-604 Tank Farm Tanks (VES-WL-100, VES-WL-101, and VES-WL-102) will be permitted as feed, storage and bottoms tanks in the PEWE Part B Permit Application (Volume 14).	S02	2	INTEC	A/B/C	Interim Status **NOTE:** Tanks VES-WM-180 through VES-WM-190 operate under NON/CO and will be closed per schedule outlined in the NON/CO.
N/A	Initial Engine Test (IET) Mercury Storage	S01	1	TAN	A	**NOTE:** Closed 12/20/96

Table 4. (continued)

Volume Number	Waste Management Process*	Process Code(s)	Process Type(s)	Location	Waste Type(s)	Unit Status
N/A	ILTSF Pad 1	S01	1	RWMC	A	**NOTE:** Closed 10/24/94
N/A	Portable Water Treatment Unit (PWTU)	S01, T04	1, 4g	PBF/WROC	A, D	**NOTE:** Closed 7/8/99
N/A	Process Experimental Pilot Plant (PREPP) Incinerator	T03	3b	TAN	A, D	**NOTE:** Closed 3/7/00
N/A	PREPP Waste Stabilization	T04	4a	TAN	A, D	**NOTE:** Closed 3/7/00
N/A	Reactives Storage and Treatment Area (RSTA)			Auxiliary Reactor Area (ARA)-IV		**NOTE:** Closed 10/24/94
N/A	Specific Manufacturing Capability (SMC) Waste Calciner, Stabilization & Storage	S01, S02, T04, X03	1, 2, 4a, 4d	TAN-681	A	**NOTE:** Closed 9/24/97
N/A	TAN-647 Sodium Storage	S01	1	TAN-647	A	**NOTE:** Closed 6/13/97
N/A	TAN-647 Waste Storage Building	S01	1	TAN-647	A	Interim Status **NOTE**: This unit is to be closed under interim status.
N/A	TAN-726 Chromate Water Storage	S01, S02, T04	1, 2, 4c	TAN-726	A	**NOTE:** Closed 12/26/95
N/A	TAN-726A Chromate Water Treatment Unit	S01, S02, T04	1, 2, 4c	TAN-726A	A	**NOTE:** Closed 12/26/95
N/A	Test Reactor Area (TRA)-610 Lead Storage	S01	1	TRA-610	A, D	**NOTE:** Closed 10/27/95
N/A	Air Support Building (ASB)-II (TSA-2)	S01	1	RWMC	A	**NOTE:** Closed 4/16/99
N/A	Certified and Segregated (C&S) Building (TSA-3)	S01	1	RWMC	A	**NOTE:** Closed 4/16/99
N/A	Waste Experimental Development Facility (WEDF) Storage	S01	1	PBF/WROC - SPERT II	A, D	**NOTE:**: Closed 12/2/97

Table 4. (continued)

Volume Number	Waste Management Process*	Process Code(s)	Process Type(s)	Location	Waste Type(s)	Unit Status
N/A	WERF Drum Feed/Blending .	T04	4e	PBF/WROC - SPERT III	A/D	**NOTE:** Closed 5/16/00
N/A	WERF Waste Storage/Feed Tanks	S02, T01	2, 4e	PBF/WROC	A, D	Interim Status **NOTE:** These tanks have interim status, but have not been built; an administrative closure will be done.
N/A	Naval Ordinance Disposal Area (NODA) Treatment			North of CFA		**NOTE:**: Closed 2/25/97

* For the purposes of this work plan, the term "Waste Management Process" is used to designate a functional grouping of one or more hazardous waste management units as defined in 40 CFR 260.10.

NOTE: HWMA/RCRA Permit Volumes (and their associated information) which are no longer needed, due to changes in permitting strategy, have been shaded gray.

Process Types

1. Container Storage
2. Tank Storage
3. Incineration
   a. controlled air
   b. rotary kiln
4. Treatment
   a. stabilization/solidification
   b. volume reduction - shredding/compacting/sizing
   c. chemical treatment
   d. thermal treatment
   e. blending
   f. evaporation
   g. ion exchange
   h. surface impoundment treatment
   i. macroencapsulation
   j. physical treatment (debris)
   k. microencapsulation
   l. repackaging
5. Waste Pile
6. Containment Building

Process Codes

S01 Container Storage
S02 Tank Storage
S03 Waste Pile Storage
T01 Tank Treatment
T02 Surface Impoundment Treatment
T03 Incineration
T04 Other Treatment

Table 4. (continued)

Waste Types

A. Low-Level Mixed - Any byproduct material radioactive waste that is not high-level waste, transuranic waste, or spent nuclear fuel. This definition is not dependent on radiation levels. This waste is hazardous as defined in 40 CFR 261.

B. High-Level Mixed - The waste radioactive material that results from the reprocessing of spent nuclear fuel. This includes the liquid waste produced directly from the reprocessing and any solid waste derived from the liquid waste that would warrant permanent isolation due to its fission product/transuranic concentrations. This waste is hazardous as defined in 40 CFR 261.

C. TRU Mixed - Radioactive waste which is contaminated with alpha particle-emitting transuranium radionuclides (atomic number greater than 92) in concentrations greater than 100 nCi/g. The TRU designation is not dependent on the origin or the form of the waste and is hazardous as defined in 40 CFR 261.

D. Hazardous - As defined in 40 CFR 261.

E. Undetermined.

NOTE: These definitions are intended to provide a basic understanding and are not intended to be all-inclusive.

Appendix A

Descriptions of Idaho National Engineering and Environmental Laboratory Hazardous Waste Management Act/ Resource Conservation and Recovery Act Waste Management Processes

Descriptions of Idaho National Engineering and Environmental Laboratory Hazardous Waste Management Act/Resource Conservation and Recovery Act Waste Management Processes

DOE-CH Operating Contractor - ARGONNE NATIONAL LABORATORY-WEST (ANL-W)

To be Permitted

Sodium Components Maintenance Shop (SCMS)

The SCMS consists of a treatment system and ancillary equipment located in Building ANL-793. The SCMS will be used to store and treat sodium, sodium potassium alloy (NaK), and characteristic mixed waste prior to final disposition.

Remote Treatment Facility (RTF)

The RTF will consist of a hazardous waste management unit(s) possibly located within the Hot Fuel Examination Facility (HFEF), Building ANL-785. The unit(s) will be used to treat and repackage characteristic and listed remote-handled mixed waste, prior to final disposition.

To be Closed

Experimental Breeder Reactor-II (EBR-II) Primary Sodium System (PSS)

The PSS consists of tank (system) storage located in Building ANL-767. Following termination, the PSS will contain sodium and NaK (characteristic mixed waste) resulting from EBR-II operations. The mixed waste will be removed from the unit/facility and treated, prior to final disposition.

EBR-II Secondary Sodium System (SSS)

The EBR-II SSS consists of container and tank (system) storage located in Building ANL-766. The EBR-II SSS contains sodium and NaK (characteristic mixed waste) used during EBR-II operations. The mixed waste will be removed from the unit/facility and treated, prior to final disposition.

Permitted

Radioactive Sodium Storage Facility (RSSF)

The RSSF consists of cargo containers (permit allows for up to 32 cargo containers) located in the Outside Radioactive Storage Area, designated as Building ANL-797. The facility is permitted to store characteristic mixed waste, prior to treatment and final disposal.

Radioactive Scrap and Waste Facility (RSWF)

The RSWF is a controlled-access, fenced, 4-acre area located 0.5 miles northeast of EBR-II, designated as Building ANL-771. The facility is permitted to store characteristic mixed waste prior to treatment and/or final disposal.

Sodium Process Facility (SPF)

The SPF is a new facility consisting of container storage, tank storage and tank treatment and is designated as Building ANL-799. The facility is used to convert sodium and NaK (characteristic mixed waste) into a low-level radioactive solid sodium hydroxide waste that is not RCRA hazardous, prior to final disposition.

Building 703, Sodium Storage Building (SSB)

The SSB is a controlled-access, metal building located directly west of the Radioactive Sodium Storage Facility (RSSF) and is designated as Building ANL-703. The facility is used to store sodium (characteristic waste), prior to treatment and final disposition.

Hot Fuel Examination Facility (HFEF)

The HFEF consists of five hazardous waste management units located on the main floor and/or the high bay area in the HFEF, Building ANL-785. These units are used to store, characterize and repackage characteristic and listed mixed waste prior to shipment to the Waste Isolation Pilot Plant (WIPP), or other approved disposal facilities for final disposition.

DOE-ID OPERATING CONTRACTOR - Bechtel BWXT Idaho, LLC.

To Operate under Interim Status/Consent Order

CPP-659 New Waste Calcining Facility (NWCF) Calciner

The calciner (VES-NCC-105) treats (T04) liquid mixed waste from the Tank Farm Facility by changing the waste form from liquid into calcine, that is sent to the Calcined Solids Storage Facility (CSSF). A decision will be made by 1/31/01 whether to close this unit or proceed with obtaining a RCRA Part B permit, per conditions of the Consent Order.

ICPP Tank Farm Facility

The ICPP Tank Farm Facility stores (S02) liquid mixed waste from operational activities at the Idaho Nuclear Technology and Engineering Center (INTEC). Tanks VES-WM-100, VES-WM-101, and VES-WM-102 will be permitted as feed, storage, and bottoms tanks in the PEW Evaporator Part B Permit Application (Volume 14).

To be Permitted

Calcined Solids Storage Facility (CSSF)

The CSSF receives and stores (S02) calcined waste directly from the New Waste Calcining Facility (NWCF) calciner. The CSSF consists of the following:

4 tanks (CPP-729 Bin Set #1)
7 tanks (CPP-742 Bin Set #2)
7 tanks (CPP-746 Bin Set #3)
3 tanks (CPP-760 Bin Set #4)
7 tanks (CPP-765 Bin Set #5)
7 tanks (CPP-791 Bin Set #6)
7 tanks (CPP-795 Bin Set #7)

CPP-601 WG/WH Cells Storage and Treatment Tanks

This unit consists of four tanks (VES-WG-100, VES-WG-101, VES-WH-100, and VES-WH-101) used for storage and treatment (S02 and T01). These tanks receive waste primarily from laboratories and process operations in CPP-601, CPP-602, and CPP-684 located at the Idaho Nuclear Technology and Engineering Center (INTEC). The waste is sent to the PEW Feed/Storage and Treatment Tanks prior to evaporation in the PEW evaporators. Present plans are to permit these tanks as part of the PEW Evaporator System - Volume 14.

CPP-604 Process Equipment Waste (PEW) Condensate/Feed Storage and Treatment Tanks

This unit consists of three storage (S02) and treatment (T01) tanks (VES-WL-106, VES-WL-107, and VES-WL-163). These tanks receive condensate from the PEW Evaporator prior to going to the LET&D Storage Tanks and eventually the LET&D Evaporators. Present plans are to permit these tanks as part of the LET&D system - Volume 10.

CPP-604 PEW Evaporators (PEWE)

This unit consists of treatment (T04) in two evaporators (EVAP-WL-129 and EVAP-WL-161). After waste is treated in this unit, it is transferred to the Tank Farm Facility or the LET&D Facility, where the nitric acid is reclaimed for reuse. Present plans are to permit these tanks as part of the PEW Evaporator System - Volume 14.

CPP-604 PEW Feed/Storage and Treatment Tanks

Presently, this unit consists of three tanks (VES-WL-102, VES-WL-132, and VES-WL-133), used for the storage (S02) and treatment (T01) of liquid waste prior to being treated in the PEW Evaporator. A permit modification request (PMR) is in-progress to add tanks VES-WL-101 and VES-WL-111 to this unit. Presents plans are to permit these tanks as part of the PEW Evaporator System - Volume 14.

CPP-604 Tank Farm Tanks

This unit currently consists of four storage (S02) tanks [VES-WM-100, VES-WM-101, VES-WM-102, and VES-WL-101 (a PMR to make tank VES-WL-101 part of the PEW Feed Storage and Treatment Tanks unit is presently in-progress)]. These tanks receive mixed waste for storage prior to transfer to the NWCF or the ICPP Tank Farm Tanks. Present plans are to permit these tanks as part of the PEW Evaporator System - Volume 14.

CPP-641 Westside Holdup Storage Tanks

This unit consists of three storage tanks (VES-WL-103, VES-WL-104, and VES-WL-105). These tanks are used for storage (S02) of liquid wastes prior to evaporation in the PEW evaporators or transferred to the Tank Farm Facility. Present plans are to permit these tanks as part of the PEW Evaporator System - Volume 14.

CPP-659 NWCF Debris Treatment

This unit does not have interim status. Treatment will include physical and chemical extraction (T04) of debris waste. This unit is to be permitted as part of the NWCF Debris Treatment Processes - Volume 18.

CPP-659 NWCF Evaporator Tank System

The NWCF Evaporator (EVAP-NCC-150) condenses/treats (T04) the liquid waste from the Tank Farm Facility, prior to being treated in the NWCF Calciner.

CPP-659 NWCF High Efficiency Particulate Air (HEPA) Filter Leach System (HFLS)

The HEPA Filter Leach System was designed to treat (T01) contaminated high efficiency particulate air (HEPA) filters by nitric acid leaching followed by water rinsing (in tank VES-NCD-141) and then air drying (in tank VES-NCD-142) to meet the debris treatment standards. These tanks are to be permitted as part of the NWCF HEPA Filter Leaching System - Volume 18.

CPP-659 NWCF HEPA Filter (Debris) Storage

This unit consists of container storage (S01) and waste pile (S03) storage areas. Spent HEPA filter and/or other debris-type wastes are stored in this unit prior to treatment in the HFLS, or prior to other debris treatment. This unit is to be permitted as part of the NWCF Debris Storage - Volume 18.

CPP-659 NWCF Storage and Treatment Tanks

This unit consists of eight storage (S02) and treatment (T01) tanks [VES-NCC-101, VES-NCC-102, VES-NCC-103 (feed storage/treatment tanks), VES-NCC-108 (storage/treatment tank), VES-NCC-119, VES-NCC-122, VES-NCD-123, and VES-NCD-129 (storage/treatment tanks)]. These tanks perform multiple functions such as feed preparation for the NWCF, storage of quench solutions from the NWCF off-gas clean-up system, collection of liquid from cell floor drains, or collection of debris treatment effluent. Tanks VES-WM-123 and VES-WM-129 are to be permitted as part of the NWCF Storage and Treatment Tanks - Volume 18.

CPP-666 Fluorinel Dissolution Process and Fuel Storage (FAST) HEPA Filter (Debris) Storage

This is a container storage (S01) unit prior to debris treatment. This unit is to be permitted as part of the FAST Debris Storage - Volume 18.

CPP-1617 Radioactive Mixed Waste Staging Facility (RMWSF)

This unit is a container storage (S01) area for radioactive, hazardous, and mixed hazardous waste, prior to waste treatment and disposal. Containers are located within a fenced area that surrounds Building CPP-1617. Additionally, sorting and segregation of RCRA waste is performed within this facility.

CPP-1618 Liquid Effluent Treatment and Disposal (LET&D) Evaporators

This unit consists of two evaporators, also referred to as fractionators (FRAC-WLL-170 and FRAC-WLK-171). These evaporators/fractionators treat (T04) the condensate from the PEWEs.

CPP-1618 LET&D Nitric Acid Recycle Storage Tank

This tank (VES-NCR-171) stores (S02) recycled nitric acid from the LET&D prior to the nitric acid being used in the NWCF Calciner or being sent to the ICPP Tank Farm.

CPP-1618 LET&D Storage Tanks

Tank VES-WLK-197 stores condensate from the PEWEs prior to the condensate being treated in the LET&D Evaporators. Tank VES-WLL-195 collects and stores the acid produced in the LET&D for use at the NWCF or the PEWE. These tanks do not have interim status.

CPP-1619 Hazardous Chemical and Radioactive Waste Storage Facility **(**HCRWSF)

This unit consists of container storage (S01) prior to further waste treatment and disposal.

WERF Repackaging

Waste repackaging (T04) is conducted in Room 102 of the MWSF and Room B102 of Building PER-609. Waste repackaging is primarily done to support mixed waste incineration at the WERF, but may also be used for other associated operational activities.

WERF Waste Stabilization System

This waste stabilization system/unit (T04) is located at the PBF/WROC, within Building PER- 609, room 109. This unit is typically used to treat WERF flyash and WERF hearth ash. Treatment is done via chemical conditioning (adding and blending chemical additives) of the waste, resulting in binding the hazardous constituents in the waste, so that the treated waste meets RCRA Land Disposal Restrictions (LDRs).

To be Closed

CPP-640 Headend Holdup Storage Tanks

This unit consists of 3 storage (S02) tanks (VES-HW-100, VES-HW-101, VES-HW-102) which were used in the fuel dissolution process at the INTEC.

ICPP Tank Farm Facility

These tanks store (S02) liquid wastes from operational activities at the INTEC. Only tanks VES-WM-180 through VES-WM-190 are to be closed.

CPP-603 Storage Tank

This unit consists of a tank (VES-SFE-106) used for waste storage (S02) and treatment (T01) at the INTEC.

CPP-601 D Cell Storage

This unit consists of container (S01) storage located in Building CPP-601 at the INTEC.

Hazardous Chemical Waste Handling and Neutralization Facility (HCWHNF)

This unit consists of 2 storage (S02) and treatment (T01) tanks (VES-HBF-103, VES-HBF-104) which are designed to treat liquid waste from the pilot plant area storage tank (VES-HBF-105).
NOTE: This RCRA permitted unit is currently undergoing closure activities.

TAN-647 Waste Storage Facility

This process consists of a container storage (S01) unit encompassing the north half of Building TAN-647 and the asphalt pad located directly north of the building.

Transuranic Storage Area-Retrieval Enclosure (TSA-RE)*

The TSA-RE (WMF-636) is a weather-tight metal building over TSA Pad R and Pad 1, with an adjacent wing over Pad 2. The building covers (S01) the waste stack, berms and sloped earth. The work area within the TSA-RE encloses the earth overburden that will be removed to expose waste containers.
*This unit will be closed by British Nuclear Fuels, Limited (BNFL).

Waste Characterization Facility (WCF) at the Radioactive Waste Management Complex (RWMC)

This unit was to be comprised of two container storage areas, container storage in glove boxes, and 4 small-scale treatment processes in glove boxes. These would be located in a structure to be built south of Building WMF-612 within the TSA, at the RWMC. (It has been decided that this unit will not be constructed.)

WERF Drum Feed/Blending

The drum feed/blending (T04) unit is located in Building PER-609, Room 111A. It consists of a concrete pad, a stainless-steel secondary containment pan, a liquid waste feed pump, two filters, and associated feed lines and piping (only up to the wall separating Rooms 111 and 111A).

Waste Experimental Reduction Facility (WERF) Incinerator

The WERF Incinerator is located at the Waste Reduction Operations Complex (WROC)/Power Burst Facility (PBF), within Building PER-609. The unit is comprised of an incinerator (T03) and its auxiliary equipment, which are located in Room 108 (incinerator, heat exchanger, and solid waste feed lines), Room 101 (air pollution control system and solid waste feed system), and Room B109 (ash collection & handling systems). Room B111 houses the incinerator control

consoles.

Permitted

Mixed Waste Storage Facility (MWSF)

The MWSF consists of a container storage (S01) unit within the basement and Room 101 and Room 102 on the main floor of Building PER-613. The unloading area is located in the high bay on the main floor.

Mixed Waste Storage Facility - Portable Storage Units (MWSF-PSUs)

This is a container storage (S01) unit consisting of multiple cargo containers. The cargo containers are located on the asphalt pad in the MWSF area.

WERF Waste Storage Building (WWSB)

This unit is located at the PBF/WROC, within Building PER-623. The unit consists of multiple container storage (S01) rooms.

WERF Macroencapsulation

The location for this treatment unit (T04) is at the PBF/WROC, in Building PER-622. The unit prototype has been constructed.

WERF Sizing

This is a new unit that has been constructed at the PBF/WROC, in Building PER-622. This unit is used to size radioactive low-level waste is permitted to size mixed low-level waste.

Test Area North (TAN) Hazardous Waste Storage (THWS)

This unit consists of two container storage (S01) areas (Rooms 100 and 105) and one loading and unloading bay (Room 100A) located in the THWS building (TAN-628).

HCWHNF

This unit consists of two storage (S02) and treatment (T01) tanks (VES-HBF-103 and VES-HBF-104) designed to treat liquid waste from the pilot plant area storage tank (VES-HBF-105). NOTE: This unit is currently undergoing closure activities.

Intermediate-Level Transuranic Storage Facility (ILTSF) - Pad 2

This unit is a container storage (S01) unit that consists of carbon-steel cylindrical vaults that have been installed vertically in the ground and encased in sand-cement grout. This unit is located in the southwest corner of the Transuranic

Storage Area (TSA).

RWMC Waste Storage Facility

This is a container storage (S01) unit that consists of up to seven Type II storage modules located east of TSA-3, and one Type I storage module located north of TSA-3, at the RWMC.

Stored Waste Examination Pilot Plant (SWEPP) TSA-3

This unit is a container storage (S01) unit located at the RWMC (Building WMF-610). The unit consists of two storage areas: Rooms 101 and 102. The SWEPP is constructed on a concrete foundation, on a portion of the TSA, Pad 3 (TSA-3).

Historical Closure Information

Army Reentry Vehicle Facility Site (ARVFS) - NaK storage

This was a container storage (S01) unit located approximately one mile east of Lincoln Boulevard, about 2.5 miles northeast of the Naval Reactor Facility. It was an underground bunker containing two stainless-steel drums and two carbon-steel containers within a metal dumpster. Closure approved by the DEQ on 9/12/96.

ARVFS Chemical Treatment Unit

Closed 9/9/94

Air Support Building (ASB) II - (TSA-2)

This container storage (S01) unit was the smaller of two, air-supported, storage buildings located at the RWMC. It was constructed on an asphalt pad, which covered the Transuranic Storage Area (TSA), Pad 2 (or TSA-2). Closure approved by the DEQ on 4/16/99.

Certified and Segregated (C&S) Building - (TSA-3)

This container storage (S01) unit was the larger of two, air-supported, storage buildings located at the RWMC (Building WMF-612). It was constructed with steel reinforcement, on an asphalt pad, over a portion of the Transuranic Storage Area, Pad 3 (or TSA-3). Closure approved by the DEQ on 4/16/99.

CPP-627 Multicurie Cell (MCC)

This was a container storage unit (S01), located in Building CPP-627 at the INTEC. Administrative closure approved by the DEQ on 7/20/99.

CPP-633 Waste Calcining Facility (WCF) Evaporator

This unit consisted of an evaporator (EVAP-WC-114) and its ancillary piping, which evaporated (T04) liquid mixed waste generated from fuel reprocessing activities at the INTEC. Closure approved by the DEQ on 11/2/99, with the caveat that the substantive post-closure care requirements for the WCF be addressed under the CERCLA ARARs under the final ROD and Post-ROD Monitoring Plan.

CPP-633 WCF Storage Tanks

This unit consisted of four storage (S02) tanks (VES-WC-100, VES-WC-101, VES-WC-108, and VES-WC-119), located in Building CPP-633 at the INTEC. Closure approved by the DEQ on 11/2/99, with the caveat that the substantive post-closure care requirements for the WCF be addressed under the CERCLA ARARs under the final ROD and Post-ROD Monitoring Plan.

CPP-633 WCF HEPA Filter Storage

This was a waste pile storage unit (S03), for storage of spent HEPA filters from the WCF. The unit was located in Building CPP-633 at the INTEC. Closure approved by the DEQ on 11/2/99, with the caveat that the substantive post-closure care requirements for the WCF be addressed under the CERCLA ARARs under the final ROD and Post-ROD Monitoring Plan.

CPP-663 Hot Shop Storage Tank

This unit was a storage tank (VES-MA-101) located in Building CPP-663 at the INTEC. This tank (S02) collected solvent waste from the hot shop. Closure approved by the DEQ on 8/22/94.

CPP-666 Fluorinel Dissolution Process and Fuel Storage (FAST) Storage and Treatment Tanks

This unit consisted of two storage (S02) and treatment (T01) tanks (VES-FA-141 and VES-FA-142) located in Building CPP-666 at the INTEC. Closure approved by the DEQ on 5/13/96.

Evaporators at TAN-607A and TAN-681

These units were classified as thermal treatment units (T04). The units dried the waste in the drum in which the waste was disposed. TAN-607A Closure approved by the DEQ on 2/25/97. Closure for TAN-681 approved by the DEQ on 12/20/96.

Hazardous Waste Storage Facility (HWSF)

This unit was a container storage (S01) area for hazardous waste, located at Central Facilities Area (CFA), Building CFA-637. Closure approved by the DEQ

on 2/4/97.

Heat Transfer Reactor Experiment (HTRE)-3 Assembly

The HTRE-3 Assembly (S01) was located on a concrete pad northeast of Experimental Breeder Reactor (EBR)-I. Closure approved by the DEQ on 1/31/00.

ICPP Percolation Ponds

This unit consisted of two percolation ponds (T02), located outside the INTEC fenced area. Closure approved by the DEQ 11/29/95.

Initial Engine Test (IET) Mercury Storage

This unit was a container storage (S01) unit, located on a concrete pad at the south end of the IET Facility. Closure approved by the DEQ on 12/20/96.

ILTSF - Pad 1

The ILTSF - Pad 1 was located at the RWMC and consisted of container storage (S01). Closure approved by the DEQ on 10/24/94.

Naval Ordinance Disposal Area (NODA) Treatment

The NODA was a tract of land about 35 acres in size, located approximately 0.6 miles northeast of the INEEL gun range. Six treatment pits (T04) and one storage area (S01) were associated with this region. Closure approved by the DEQ on 2/25/97.

Portable Water Treatment Unit (PWTU)

The PWTU was an ion exchange treatment (T04) system in a transportable trailer. The unit was once located near the TAN facility and later located near the PBF/WROC reactor. The DEQ approved completion of closure activities on 7/8/99.

Process Experimental Pilot Plant (PREPP) Incinerator

This process consisted of the rotary kiln incinerator (T03) and its auxiliary equipment, and was located within the middle and southern portions of Building TAN-607. The DEQ approved completion of closure activities on 3/7/00.

PREPP Waste Stabilization

This process consisted of stabilization (T04) unit equipment, and was located in the southern portion of Building TAN-607. The DEQ approved completion of closure activities on 3/7/00.

Reactives Storage and Treatment Area (RSTA)

The RSTA was located at the Auxiliary Reactor Area (ARA)-IV in the south-central portion of the INEEL, approximately 7.5 miles east of CFA. This unit consisted of a container storage unit (S01) and a thermal treatment (T04) unit. The thermal treatment unit was used once to treat reactive and explosive hazardous waste. Closure approved by the DEQ on 10/24/94.

Specific Manufacturing Capability (SMC) Waste Calciner, Stabilization and Storage (TAN-681)

The SMC calciner (X03) unit thermally treated a slurry containing uranium oxides, salts and metallic compounds. The Solidification/stabilization (T04) unit treated a depleted uranium oxide powder, containing heavy metals, using Portland cement. A tank storage (S02) unit for waste storage prior to calcination and container storage (S01) unit for waste storage after calcination were also located at TAN-681. Closure approved by the DEQ on 9/24/97.

TAN-647 Sodium Storage

This was a container storage (S01)unit, comprised of a sodium drain tank located on a gravel-covered asphalt pad in the south half of Building TAN-647. Closure approved by the DEQ on 6/13/97.

TAN-666 Storage and Treatment Units

Closed 10/20/94

TAN-726/726A Chromate Water Treatment and Storage

This unit consisted of a concrete vault containing two interconnected stainless steel 50,000-gallon tanks, used for waste treatment and storage (T04, S02), within Building TAN-726. Closure approved by the DEQ on 12/26/95.

Test Reactor Area (TRA)-610 Lead Storage

This was a container storage (S01) unit in one room within Building TRA-610. Closure approved by the DEQ on 10/27/95.

Waste Engineering Development Facility (WEDF) Storage

This consisted of a container storage (S01) unit located within the cinder block walled area in the southwest corner of Building PER-612. Closure approved by the DEQ on 12/22/97.

WEDF Waste Stabilization

This treatment (T04) unit was located in the WEDF solidification room, in Building PER-612. Closure approved by the DEQ on 12/22/97.

WERF Waste Storage/Feed Tanks

This unit storage/treatment unit (S02, T01) was never constructed. It was anticipated to be a tank system with associated piping, to expand the blending and treatment capability of the WERF Drum Feed/Blending Unit. The DEQ approved administratively closure of this unit on 5/16/00.

Appendix B

Historical Information

Historical Information

Under Title 40, Code of Federal Regulations (CFR), Part 270.73(g), interim status terminates for any facility (other than land disposal or incineration) on November 8, 1992, unless the Resource Conservation and Recovery Act (RCRA) Part B permit application for the facility was submitted by November 8, 1988. Furthermore, the Environmental Protection Agency (EPA) published a clarification notice in the September 23, 1988 Federal Register (FR) that radioactive mixed waste management units in existence on or before July 3, 1986, may be granted interim status if the RCRA Part A permit application was submitted by March 23, 1989. The Idaho National Engineering and Environmental Laboratory (INEEL) submitted a revised RCRA Part A permit application for the RCRA units at the INEEL, on November 8, 1988, which included all hazardous waste management units and many radioactive mixed waste management units potentially subject to RCRA regulations. A revised Part A permit application, submitted on March 23, 1989, included all radioactive mixed waste units potentially subject to RCRA regulations.

RCRA Part B permit applications have been submitted previously to EPA Region X for a number of units at the INEEL. The State of Idaho has been authorized by the EPA to implement the EPA's hazardous waste management program under the Hazardous Waste Management Act (HWMA). The Idaho Department of Health and Welfare (IDHW), Division of Environmental Quality (DEQ) administers the program for the state and has authority to issue HWMA/RCRA operating permits which comply with state and federal laws. The DEQ issued a letter dated March 19, 1991, which stated that the units listed in the September 1990 Part A permit application were under interim status, thereby approving the RCRA Part A Permit for the INEEL.

The number of units on the 1988 Part A permit application precluded the completion of a Part B permit application by November 8, 1988, that met all the requirements of 40 CFR 270; no schedule had yet been established by EPA Region X for completion of the Part B permit applications for the radioactive mixed waste units at the INEEL. Therefore, the INEEL HWMA/RCRA Work Plan was originally prepared and submitted to EPA Region X, in November 1988, to provide a schedule for revising the existing INEEL RCRA Part B permit application, and supplementing the application, to include the requisite information for the additional units for which final operating permits are sought. Thus, the November 1988 work plan was intended to fulfill the filing requirements to maintain interim status through 1992 and beyond, for the waste management units identified on the revised Part A permit application. In April 1989, the work plan was revised to incorporate additional radioactive mixed waste management units

included in the March 1989 Part A permit. The November 1990 work plan incorporated changes included in the September 1990 Part A permit and revised the proposed permit application schedule. The April 1991 and October 1992 work plan revisions incorporated changes to the Part A permit and revised the proposed permit application schedule. The December 1993 work plan revision incorporated format changes, changes to the Part A permit, and revised the proposed permit application schedule. May 1994 and June 1995 work plan revisions incorporated changes to the Part A permit and closure schedules. The October 1997, the draft April and September 1999 and Final December 1999 revisions of the work plan incorporate format changes as well as Part A permit changes and closure schedule changes. The January 31, May 31, and June 6, 2000 versions of the work plan incorporate changes in interim status units due to approved RCRA closures and interim status units receiving RCRA Part B Partial Permits.

Each volume of the HWMA/RCRA Part B permit application will be submitted to the DEQ by the DOE approved M&O contractor. The HWMA/RCRA Part B permit applications will be prepared in a series of supplements (volumes).

The RCRA Part B permit application for the INEEL was originally submitted in October 1985, to EPA Region X, and addressed the following waste management units: Hazardous Waste Storage Facility (HWSF) at CFA-637; Radioactive Mixed Waste Storage Facility (RMWSF) at Special Power Excursion Reactor Test (SPERT)-IV; Waste Experimental Reduction Facility (WERF) Incinerator at SPERT-III; Hazardous and Mixed Waste Storage/Blending Tanks for waste feed to the WERF Incinerator at SPERT-III; and Waste Stabilization (solidification) at WERF (SPERT-III). Additionally, in 1985, a separate RCRA Part B permit application was prepared and submitted to the DOE-ID (as classified information) for a storage facility at the Specific Manufacturing Capability (SMC) area of the INEEL.

The 1985 RCRA Part B permit application was revised in March 1986, in response to deficiencies identified by the EPA permit writer [December 1985 Notice of Deficiency (NOD)]. The March 1986 revision also documented replacement of the Waste Feed Storage/Blending Tanks at the WERF, with a two-drum waste feed/blending station.

A supplement to the INEEL RCRA Part B permit application was submitted to EPA Region X, in November 1986, to add the Process Experimental Pilot Plant (PREPP) Incinerator, the PREPP Waste Stabilization Unit, and associated waste storage and waste storage/blending units. The application was further revised in November 1986, in response to deficiencies identified by EPA Region X (March 1987 NOD). This revision also incorporated three units not previously addressed: Waste Experimental Development Facility (WEDF) Waste Stabilization at SPERT-II, and two separate storage units for liquids

and solids at the PREPP. The five-volume November 1987 submittal replaced all RCRA Part B materials previously submitted.

In 1986 and 1987, Land Disposal Units (LDUs) were added to the INEEL Part A permit application, in compliance with the Consent Order and Compliance Agreement (COCA) for the INEEL. Thirty LDUs were identified under the COCA. The COCA was later replaced by the Federal Facilities Agreement and Consent Order (FFA/CO), on December 9, 1991. The LDUs will all be evaluated under the FFA/CO. Units retaining the HWMA/RCRA LDU designation will be remediated, if necessary, under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process, in accordance with the applicable substantive requirements of HWMA/RCRA (acceptable risk to human health or the environment).

Appendix C

Hazardous Waste Management Act/ Resource Conservation and Recovery Act Permitting Point of Contact Matrix

Hazardous Waste Management Act/Resource Conservation and Recovery Act Permitting Point of Contact

Volume Number	Waste Management Unit Description	Unit Location	Unit Status	INEEL Point of Contact	DOE Point of Contact	DEQ Point of Contact
1	Hazardous Waste Management Act (HWMA)/Resource Conservation and Recovery Act (RCRA) Part A Permit Application for the Idaho National Engineering and Environmental Laboratory (INEEL).	INEEL site-wide	Bechtel BWXT Idaho, LLC (BBWI) Responsible Operator	Pam Cunningham 208-526-0300	Nicole Brooks 208-526-0709	Vivien Hall 208-373-0137
2	HWMA/RCRA Part A Permit Application for the INEEL - Argonne National Laboratory-West (ANL-W).	INEEL - ANL-W	ANL-W Responsible Operator	Maureen Finnerty 208-533-7924	Gregg Bass 208-533-7184	TBD
3	General Information for INEEL Waste Management Units	INEEL	BBWI operator	Darrell Lake 208-526-7005 Pam Cunningham 208-526-0300	Nicole Brooks 208-526-0709	TBD
4	ANL-W Storage Units					
	Radioactive Scrap and Waste Facility (RSWF)	ANL-771	Permitted 1/24/94	Maureen Finnerty 208-533-7924	Greg Bass 208-533-7184	Beth McPherson 208-373-0483
	Radioactive Sodium Storage Facility (RSSF)	ANL-797	Permitted 1/24/94			
	Hot Fuel Examination Facility (HFEF)	ANL-785	Permitted 12/99			
	Building 703, Sodium Storage Building (SSB)	ANL-703	Permitted 12/99			
5	Intermediate-Level Transuranic Storage Facility (ILTSF) - Pad 2	RWMC	Permitted 11/13/95	Sharon Jacobo 208-526-2265	Nicole Brooks 208-526-0709	TBD0
	Radioactive Waste Management Complex (RWMC) Waste Storage Facility	RWMC	Permitted 11/13/95			
	Transuranic Storage Area (TSA)-3 [Stored Waste Examination Pilot Plant (SWEPP)]	RWMC	Permitted 9/30/96			
6	New Waste Calcining Facility (NWCF) Calciner	Idaho Nuclear Technology and Engineering Center (INTEC) CPP-659	Interim Status	Paul Smith 208-526-0611	Nicole Brooks 208-526-0709 Don Rasch 208-526-1511	TBD
	NWCF Evaporator Tank System	INTEC CPP-659	Interim Status			
	NWCF Storage & Treatment Tanks	INTEC CPP-659	Interim Status			
7	Hazardous Waste Storage Facility (HWSF)	Central Facilities Area (CFA)-637	Closed 2/4/97	Ann Boehmer 208-526-7937	N/A	N/A

Volume Number	Waste Management Unit Description	Unit Location	Unit Status	INEEL Point of Contact	DOE Point of Contact	DEQ Point of Contact
8	Hazardous Chemical Waste Handling and Neutralization Facility (HCWHNF)	INTEC CPP-620 Annex	Permitted 5/1/95	Scott Reno 208-526-6163	Dave Wessman 208-526-0082	TBD
9	Waste Experimental Reduction Facility (WERF) Incinerator	Power Burst Facility (PBF) Special Power Excursion Reactor Test (SPERT)-III	Interim Status	Tim Solle 208-526-8568 or 208-526-4601	Nicole Brooks 208-526-0709 Don Rasch 208-526-1511	Brian English 208-373-0425
	WERF Waste Stabilization	PBF/SPERT-III	Interim Status			
	WERF Repackaging	PBF/SPERT-III	Interim Status			
10	Liquid Effluent Treatment & Disposal (LET&D) Evaporators	INTEC CPP-1618	Interim Status to be requested	Ann Boehmer 208-526-7937	Nicole Brooks 208-526-0709	TBD
	LET&D Storage Tank	INTEC CPP-1618	Interim Status			
	LET&D Nitric Acid Recycle Tank	INTEC CPP-1618	Interim Status			
11	Mixed Waste Storage Facility (MWSF)	PBF/SPERT-IV	**Permitted 1/27/00**	Tim Solle 208-526-8568 or 208-526-4601	Nicole Brooks 208-526-0709	Beth McPherson 208-373-0483
	MWSF Portable Storage Units	PBF/SPERT-IV	**Permitted 1/27/00**			
	WERF Waste Storage Building	PBF/SPERT-III	**Permitted 1/27/00**			
	Test Area North (TAN) Hazardous Waste Storage Area (THWS)	TAN-628	**Permitted 1/27/00**			
	WERF Macroencapsulation	PBF/SPERT-III	**Permitted 1/27/00**			
	WERF Sizing	PBF/SPERT-III	**Permitted 1/27/00**			
12	THWS (This unit was incorporated into Volume 11 in January of 1999. Volume 12 is no longer needed.)	TAN-628	**See Volume 11 information**	Tim Solle 208-526-8568 or 208-526-4601	Nicole Brooks 208-526-0709	TBD
13	Transuranic Storage Area-Retrieval Enclosure (TSA-RE) Retrieval Modification Facility (RMF)	RWMC	Interim Status	Sharon Jacobo 208-526-2265	Nicole Brooks 208-526-0709	N/A
	Waste Characterization Facility (WCF) (These units will not be permitted)	RWMC	Interim Status			
14	Process Equipment Waste (PEW) Evaporator	INTEC CPP-604	Interim Status	Ann Boehmer 208-526-7937	Nicole Brooks 208-526-0709	TBD
	PEW Feed Storage and Treatment Tanks CPP-601 WG/WH C	INTEC CPP-604	Interim Status			
	CPP-604 Tank Farm Tanks (VES-WM-100, -101, -102)	INTEC CPP-604	Interim Status			

Volume Number	Waste Management Unit Description	Unit Location	Unit Status	INEEL Point of Contact	DOE Point of Contact	DEQ Point of Contact
TBD	Calcined Solids Storage Facility (CSSF)	INTEC	Interim Status	Paul Smith 208-526-0611	Nicole Brooks 208-526-0709	TBD
15	Army Reentry Vehicle Facility Site (ARVFS) Sodium-Potassium Waste Treatment - Closed Sodium Components Maintenance Shop (SCMS) (These units were incorporated into Volume 16. This volume is no longer needed.)	ANL-793 ANL-793	Closed 9/9/94 See Volume 16	Maureen Finnerty 208-533-7924	NA	Beth McPherson 208-373-0483
16	ANL-W Treatment Units Sodium Process Facility (SPF) Sodium Components Maintenance Shop (SCMS) Remote Treatment Facility (RTF)	 ANL-799 ANL-793 ANL-785	 Permitted 4/97 Interim Status New Unit	 Mike Holzemer 208-533-7625 Maureen Finnerty 208-533-7924 Maureen Finnerty 208-533-7924	 Greg Bass 208-533-7184	 Beth McPherson 208-373-0483
17	Radioactive Mixed Waste Staging Facility (RMWSF) Hazardous Chemical & Radioactive Waste Storage Facility (HCRWSF) NOTE: The information in this Volume will be added into the Volume 18 RCRA Partial Permit within 180 days of its issuance, per request of the DEQ.	INTEC CPP-1617 INTEC CPP-1619	Interim Status Interim Status	Alan Carvo 208-526-1170	Nicole Brooks 208-526-0709	Beth McPherson 208-373-0483
18	NWCF High Efficiency Particulate Air (HEPA) Filter Storage NWCF HEPA Filter Leach System NWCF Debris Treatment Fluorinel Dissolution Process and Fuel Storage (FAST) HEPA Filter Storage NWCF Storage & Treatment Tanks	INTEC CPP-659 INTEC CPP-659 INTEC CPP-659 INTEC CPP-666 INTEC CPP-659	Interim Status Interim Status New Unit Interim Status Interim Status	Alan Carvo 208-526-1170	Nicole Brooks 208-526-0709	TBD
19	WERF Macroencapsulation WERF Sizing (These units were incorporated into Volume 11 in January of 1999. Volume 19 is no longer needed.)	PBF/SPERT-III PBF/SPERT-III	New Unit New Unit	Tim Solle 208-526-8568 or 208-526-4601	Nicole Brooks 208-526-0709	TBD
N/A (BNFL)	HWMA/Toxic Substances Control Act (TSCA) Part B Permit Application for the Advanced Mixed Waste Treatment Facility (AMWTF)	RWMC	New Unit	Malone Steverson 208-528-2149	Greg Hula 208-526-9899	Brian English 208-373-0425